

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF NORTHBOUND MD 3 AND MD 175/MILLERSVILLE RD IN ANNE ARUNDEL COUNTY. MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED WILL BE USED. THE INTERSECTION OPERATION WILL NOT BE CHANGED. INSTALL ONE 4-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER.

PHASE CHART

	1	2	3	4	5	6	7	8	9
	⓪	⓪	⓪	⓪	⓪	⓪	⓪	⓪	⓪
PHASE 2	G	G	G	R	R	R	R	R	R
2 CHANGE	Y	Y	Y	R	R	R	R	R	R
PHASE 4 + 8	R	R	R	G	G	G	G	G	G
4 + 8 CHANGE	R	R	R	G	G	G	G	G	G
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

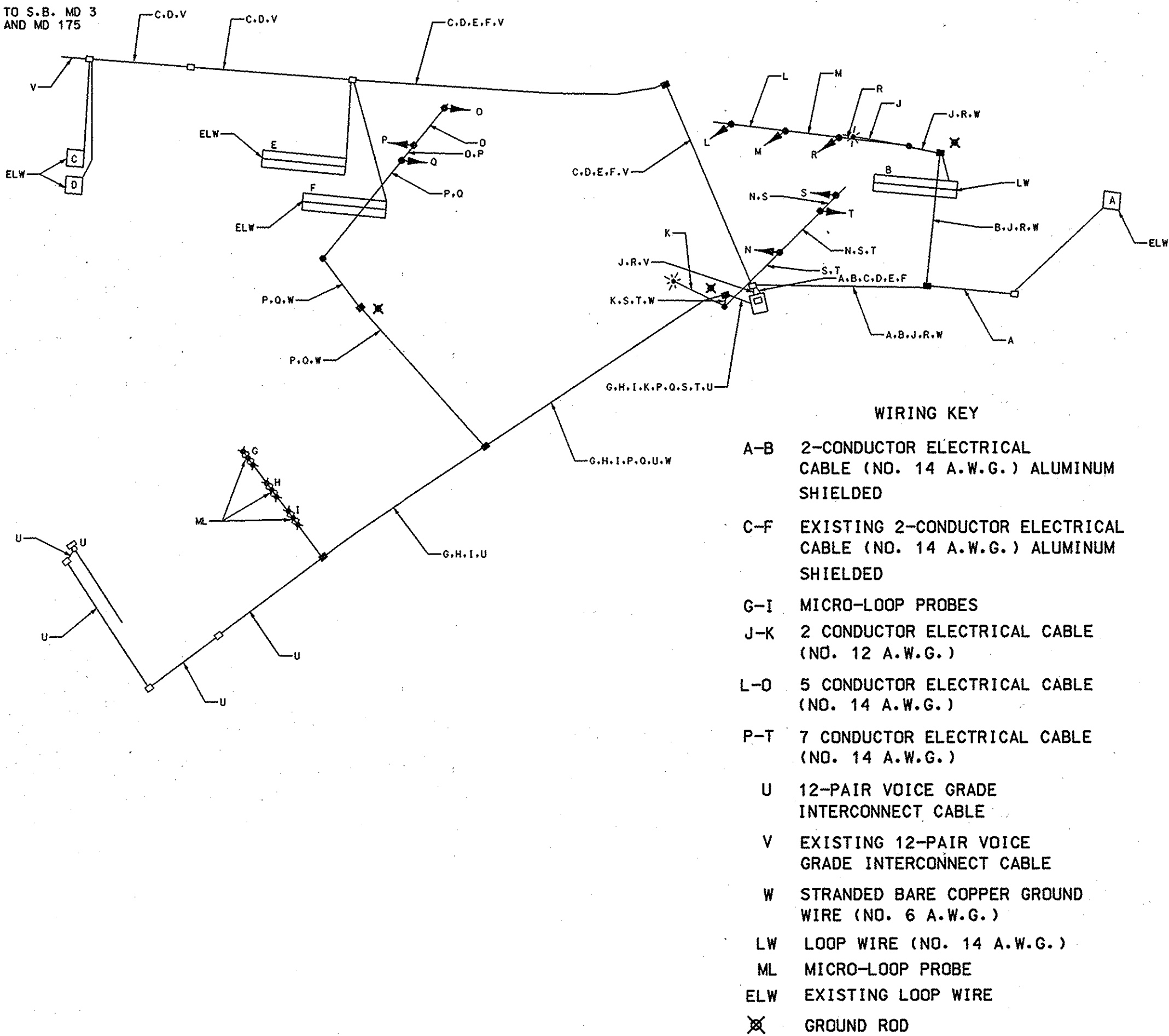
EQUIPMENT LIST "B" CONTINUED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
8085	6 EA	FURNISH AND INSTALL 8 IN., VEHICLE TRAFFIC SIGNAL HEAD SECTION
----	1 EA	FURNISH AND INSTALL R3-5L SIGN (30 IN. X 36 IN.) MAST ARM MOUNT
----	1 EA	FURNISH AND INSTALL FOUR CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
----	1 EA	FURNISH AND INSTALL R3-1 SIGN (24 IN. X 24 IN.) MAST ARM MOUNT
----	1 EA	FURNISH AND INSTALL R3-2 SIGN (24 IN. X 24 IN.) MAST ARM MOUNT
----	550 LF	REMOVE AND RE-INSTALL EXISTING ELECTRICAL CABLE

WIRING DIAGRAM

NOTE: DISCONNECT WIRES C-D-E-F AND R FROM THE CONTROLLER AND REMOVE TO THIS POINT. RE-INSTALL THROUGH NEW CONDUIT TO CONTROLLER.



EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
1002	3 CY	TEST PIT EXCAVATION
5004	100 LF	FURNISH AND INSTALL 24 IN. HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING
8001	15 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8017	3 EA	FURNISH AND INSTALL NON-EVASIVE MICRO-LOOP PROBE WITH 1000 FT. LEAD-IN
8021	230 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	10 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8027	660 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8029	300 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT-BORED
8032	80 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT-BORED
8033	8 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	3 EA	FURNISH AND INSTALL GROUND ROD - 3/4" X 10'
8039	1300 LF	FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE, JELLY-FILLED (UNDERGROUND)
8040	430 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8041	450 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8044	110 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	1000 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8046	270 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
8048	350 LF	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8055	2 EA	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCCELL
8056	2 EA	FURNISH AND INSTALL 20 FT. LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8060	1 EA	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
8061	1 EA	INSTALL 3 IN. CONDUIT BEND IN EXISTING BASE
8078	1 EA	FURNISH AND INSTALL MAST ARM POLE WITH 60 FT. MAST ARM
8079	2 EA	FURNISH AND INSTALL MAST ARM POLE WITH 70 FT. MAST ARM
8084	21 EA	FURNISH AND INSTALL 12 IN., VEHICLE TRAFFIC SIGNAL HEAD SECTION

EQUIPMENT LIST "C"

C. ALL MATERIAL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION SHEET  
NORTHBOUND MD 3 AND MD 175/ MILLERSVILLE RD

DRAWN BY: T.M.Z	F.A.P. NO.	TS NO.	SHEET NO. 2 OF 2
CHECKED BY: K.W.S. [Signature]	S.H.A. NO.	180 G GI	
SCALE: NONE	COUNTY: ANNE ARUNDEL	T.I.M.S. NO. E627	
DATE: 8-01-01	LOG MILE:		